## APPENDIX B

Afterney Backet No.: 021149.00000;

Apple, No.

10/5/6,381 Applicants Guenther Eissner, st al. Filed June 10, 2065

An Uale 1635 Conf. No. : 4749

Exampleer Amy Hudson Bowmen Docker No. 021149,000001

Customer Na. : 24239

Method for Protection of Endothelial and Epithelial Cells During

## Decliration Under 37 C.F.R. §1.132

Hemorable Commissioner of Paleuts and Trademarks Washington, D.C. 20231

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## GUENTHER EISSNER declares that

- He is a co-inventor of and is familiar with the present U.S. timen application Serial No. 10/5) 6,381, filed June 18, 2005 in the name of timerather Eleganer and Erum Philips and craftled "Method for Protection of Endahellal and Eplinellal Cells During Chemotherapy" and is familiar with the Official Action dated May 23, 2008 issued therein and with the prior art references clied in the Official Action, including the Eurooph et al. (U.S. Patent No. 3,524,912), Sayer at al. (7. Canous Ses. Clin. Oncol., March 2002, 128, pgs. 148-152), Boirey et al. (American Journal of Monatology, April 2002, 69, pgs. 281-284), and De Luca et al. Unr. J. Cancer, 1997, 73, pgs. 277-
- He received a Bachelor of Science degree in Human Diology from the Philippe-University of Marburg Germany in 1988 and a Ph.D. from the Institute for Immunology of the Ludwig-Maximilians-University of Munich Gormany in 1992. Synm 1992 to 1997, in served his pussed octoyal fellow at the institute for Clinical Molecular Bloingy of the CSF-Research Center for Environment and Health, in Municit Germany. From 1997 to 1998, he was employed with Ladwig-Maninillians-University of Manich, Germany, from 1998 to 2004 he was employed at the University of Regereburg, Cermany, from 2004 to 2007 he was employed with Centium, S.p.A., and from 2008 in the presont time he has been employed at the Gruschadern Medical Center-University of Munich, Germany as a Professor for Interdisciplinary Stem Cell Research in the Department of Cardiac Surgery. His primary area of expertise comprises the field of immunology, with particular emphasis on transplantation and arem cell biology. He is a coinventor on two Peters Croperation Totally applications and has authored numerous publications and grams in the field of immunology, including stem cell biology and transplantation adjence, ₹.
- Linder his direction and control, the following experiment was performed:

Maintels and Mulhods: The human darrest uncoversular endortralial cell line CDC/EU. HMEC-1 (HMEC) was kindly provided by the Centers for Disease Control and Prevention

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(Albins, GA) and has been established at previously described.\(^1\) HMGCs were onhured in MCTB131 medium supplemented with 13% feital calif sensor (FCS), I ug/rd. hydrocortisone (Signa), Deisenhofen, Germany), 10 ng/nd., epidement growth Factor (Collaborative Bhothemical Products, Bodford, MA), and multibidets. All cell culture rangents were purchased from Giber ERL (Karistonic, Germany) unimase attend otherwise. 5-fluoroscond (G-EU) was obtained from Signa (Deisenhofen, Germany). Defibrotide was obtained from Gentlem SpA (Villa Guardia (CO), Islay).

Anotheria Asset: An established metano for desecting apoptosis in human enderhelial cells was performed as previously described using flow cytometry. § ACCian and Cellipus software (Beeton Dickinson/Planenlargen, Heidelberg, Germany). Endothelial and tumpr sells were left universated or were incutasted in the presence of 2-PU in descending concentrations (range: 10 g/ml. to 0.1 µg/ml.) in the presence of twentre of delibroids or oligotide? for 48 hours. Cells were then wested in pinoprinter-buffrered sating (PSS) — 10% FCS and were stained with the succrosis-descelling dye propidium todied (Pig. 0.2 µg/ml.; Signa, Deisenbofen, Germany), Apoptorio cells were identified by Principative setting and by ontensetvation field seather (SSC) Image distinct from that of non-nouproid cells. At least 3 experiments per cell type were performed.

Results: Results obtained from the experiment are presented below in Figure 1 and demonstrate emblement. For the protective offices of an oligonuclearistic of the present invention on a patient's epitted in another modern endothelist cells from immunosuppressent-indexed apoptosis and/or activation. Specifically, the data attenty shows that the addition of 3-FU induces apoptosis in BMRCs. Flowever, administrating effect of difficulties or algorities' contentrated the 5-FU subtured apoptosis, thereby achieving protection of the endothelial cells from the apoptosis induced by the immunosuppressent.

<sup>&</sup>lt;sup>3</sup> Ades, 5, W., Condal, F.L., Swerlick, R.A. et al., "18484C-1: Rambitchment of an Immonalized Human Microwascular Endoquelled Cast Lina," J. Innust. December, 1992, 99-683-599.

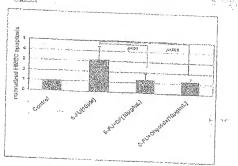
<sup>\*</sup> Conser, T. G., Lumwan, S.V., Olymn, I.M., Groon, D.R. "Mirrofitassens-Disrupting Agents Prevent the Formation of Apopurite Berdest in Tumus Cells Undergoing Apopurois," Conser Res. 1992, 32:097-1005.

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These results demonstrate that both defibroside or oligatide are capable of preventing 5-PU. mediated apoptosis in MMEC colls, and tiscrefore spis first the enablement requirement as it persons to the terms "protestive of genericolide" and "immunicoppresson."

4. I hereby declare this all statements made herein of my own knowledge are true and this all statements made on information and belief are believed to be free; and further that those statements were made with the knowledge that willful fillies statements and the like so made are punishable by fine or imprisonness, or both, under Section 1901 of Title 18 of the United Stores Code and that such willful false statements may Jeopardize the validity of the application or any

Nov 2008

Respectfully subm Guenther/Lissner

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